UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P. O. Rev. 1450

P O Box 1450 Alexandria, Virgima 22313-1450

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

22150 7590 06/13/2008 F. CHAU & ASSOCIATES, LLC 130 WOODBURY ROAD WOODBURY. NY 11797 EXAMINER

NGUYEN, THANH NHAN P

ART UNIT PAPER NUMBER

2871

DATE MAILED 06/13/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/723,178	11/26/2003	Hyo-Hak Nam	8071-50 (OPP 030570 US)	5722		
TITLE OF INVENTION: LIQUID CRYSTAL DISPLAY AND MANUFACTURING METHOD THEREOF						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/15/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (	rders and notification a a) specifying a new co	of m erresp	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspond rate "FEE .	ence address as ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
22150		/2008			Com	ificate	of Mailing on Trans	mission	
F. CHAU & ASSOCIATES, LLC 130 WOODBURY ROAD WOODBURY, NY 11797				I hereby certify that this Fee(s) Transmittal is being deposited witl States Postal Service with sufficient postage for first class mail in addressed to the Mail Stop ISSUE FEE address above, or bein transmitted to the USPTO (571) 273-2885, on the date indicated be			with the United in an envelope being facsimile d below.		
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTO		R ATTORNEY DOCKET NO.		RNEY DOCKET NO.	CONFIRMATION NO.	
10/723,178	1 I/26/2003	•	Hyo-Hak Nam			807 I-5	0 (OPP 030570 US)	5	722
TITLE OF INVENTION									
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE FEE		TOTAL FEE(S) DUE	DA	ATE DUE
nonprovisional	NO	\$1440	\$300	_	\$0		\$1740	09	/15/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	3					
NGUYEN, TH		287I	349-II0000						
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).  Change of correspondence address (or Change of Correspondence Address form PTOSB/122) anached.  The Address indicated or "Fee Address" Indication form PTOSB/142, and Correspondence Address form to the Address and Correspondence Address and Correspondence of the			(1) the names of up to 3 registered patent attorneys 1. cragents OR, alternatively.  (2) the name of a single firm thaving as a member a registered natency or agent of the names of up to 2 registered patent attorneys or agents. If no name is mission, an amen will be printed.						
3. ASSIGNEE NAME A PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIGNAME Please check the appropri	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	data will appear on th T a substitute for filing (B) RESIDENCE: (C	e pa an a	tent. If an assign assignment. and STATE OR C	OUNT			
Advance Order -	No small entity discount p	permitted)	b. Payment of Fee(s): (I     A check is enclose     Payment by credit     The Director is her     overpayment, to D	ed. card	I. Form PTO-2038	is atta	ched. required fee(s), any de	ficiency, or	
<ol> <li>Change in Entity Sta</li> <li>Applicant claim</li> </ol>	tus (from status indicated is SMALL ENTITY state		☐ b. Applicant is no	long	er claiming SMAI	LEN	ITTY status. Sec 37 Cl	R 1.27(g)(3	2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark							
Authorized Signature					Date				
Typed or printed name					Registration N				
This collection of inform an application. Confiden submitting the completes this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC t13-1450.	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or re s esti ndivi fficer S TO	etain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and THIS ADDRESS	ne publ ninutes mment Traden	tic which is to file (and to complete, including s on the amount of tin hark Office, U.S. Depart of TO: Commissioner	by the USI g gathering ne you requ ertment of C or Patents,	PTO to process), preparing, and ire to complete Commerce, P.O. P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



## UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

DATE MAILED: 06/13/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/723,178	11/26/2003	Hyo-Hak Nam	8071-50 (OPP 030570 US)	5722			
22150 7	22150 7590 06/13/2008			EXAMINER			
F. CHAU & AS	SOCIATES, LLC	NGUYEN, THANH NHAN P					
130 WOODBURY ROAD			ART UNIT PAPER NUMBER				
WOODBURY, N	Y 11797	2871					

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 171 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 171 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)	
10/723,178	NAM ET AL.	
Examiner	Art Unit	
THANH-NHAN P. NGUYEN	2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 3/26/08.
- 2. The allowed claim(s) is/are 43-68.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some\* c) None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
    - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date\_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date \_\_\_\_\_\_

  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413),
   Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other \_\_\_\_\_.

### DETAILED ACTION

## Allowable Subject Matter

Claims 43-68 are allowed.

#### Reasons for Allowance

Claims 43-68 are allowed since there is no prior art of record that teaches or suggests a liquid crystal display and a method of manufacturing thereof comprising a relationship of various elements as claimed with the specific allowable subject matter cited in the following claims:

#### Claim 43:

- a first panel including a conductive member including a light transmitting portion
- a second panel spaced apart from the first panel by a predetermined gap and including a black matrix
- a sealant disposed between the first panel and the second panel and overlapping the black matrix, the light transmitting portion disposed at the overlapping
- wherein the conductive member comprises a connector for signal transmission between the data driving circuit and the gate driving circuit

Claims 44-55 are allowed since they depend on the allowed claim 43.

# Claim 56:

· a first panel including a conductive member including a light transmitting portion

Application/Control Number: 10/723,178 Page 3

Art Unit: 2871

• a second panel spaced apart from the first panel by a predetermined gap and

including a black matrix

a sealant disposed between the first panel and the second panel and overlapping

the black matrix, the light transmitting portion disposed at the overlapping

· wherein the conductive member comprises a connector transmitting signals

between the data PCB and the gate PCB and overlapping the sealant and the

black matrix

Claim 57:

a first panel including a conductive member including a light transmitting portion

· a second panel spaced apart from the first panel by a predetermined gap and

including a black matrix

a sealant disposed between the first panel and the second panel and overlapping

the black matrix, the light transmitting portion disposed at the overlapping

wherein the first panel further comprises a first signal line for signal transmission

with the gate driving circuit, and a second signal line for signal transmission with

the data driving circuit, the conductive member comprises a connector for signal

transmission between the data PCB and the gate PCB, and the connector and

the first and the second signal lines are located in and out of the sealant

Claim 58:

Application/Control Number: 10/723,178 Page 4

Art Unit: 2871

• forming a conductive member including alight transmissive portion on a first

substrate

· forming a black matrix on a second substrate

forming a sealant overlapping the light transmissive portion

• wherein the conductive member comprises a connector for signal transmission

between a data driving circuit and a gate driving circuit

Claims 59-64 are allowed since they depend on the allowed claim 58.

Claim 65:

· a first panel including a conductive layer

· a second panel spaced apart from the first panel by a predetermined gap and

including a black matrix

a sealant disposed between the first panel and the second panel and overlapping

the black matrix

wherein the conductive layer has a plurality of slits located at the overlapping and

elongated along a signal transmission of the conductive layer, and the conductive

layer comprises a connector for signal transmission between a data driving circuit

and a gate driving circuit

Claims 66-68 are allowed since they depend on allowed claim 65.

Conclusion

Application/Control Number: 10/723,178

Art Unit: 2871

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Park et al (US 2001/0026345) disclose a liquid crystal display comprising a first panel including a conductive; a second panel spaced apart from the first panel by a predetermined gap; a sealant disposed between the first panel and the second panel and overlapping the conductive member; wherein the conductive member comprises a connector for signal transmission between a data driving circuit and a gate driving circuit.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

## Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P. Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for Application/Control Number: 10/723,178 Page 6

Art Unit: 2871

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

-- June 9, 2008 (Nancy) Thanh-Nhan P Nguyen

Examiner Art Unit 2871

/David Nelms/

Supervisory Patent Examiner, Art Unit 2871